

PANORAMA

Visual Analysis Tool for GNSS Receiver Data



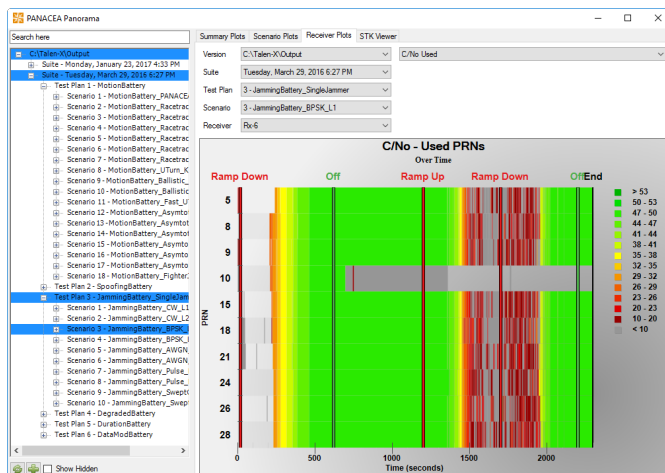
What is Panorama?

Panorama is the flagship tool for easily analyzing receiver data. When engineers use Panorama they spend more time looking at plots and making decisions, instead of making plots and writing reports. Panorama takes receiver data (.csv files) and turns it into over 60 engineering plots ready to view at the click of your mouse. These plots give engineers and analysts the ability to view summary level data, head to head comparisons, receiver specific results, and 3D LLA replays using STK.

Applications

While the focus of a field test is generally on the test articles, participants, and timelines, a larger consideration should be the data collection process and how that data will be used to arrive at conclusions. Many hours are spent on building test log formats, timescales, and data entry forms. These are still beneficial to provide cross checks but the focus should be on automating the data collection and the ability to quickly and confidently analyze the data. Time stamping is crucial and in some cases, external references must be used. These files should also have a consistent format to enable comparison and analysis easily and without question. These files along with the analysis artifacts need to be made available to support the report and permit future testers to dig into the data in preparation for future tests.

Safran Federal Systems is the trusted Resilient PNT mission partner to U.S. government and defense organizations, from the lab to the field.



Software

Panorama makes it easy to directly compare the performance of several receivers simultaneously. Powerful visualizations make it easy to evaluate. Panorama provides the tools to “deep dive” into the receiver data to analyze why the receiver performed the way it did, and identify specific causes.

Engineering Plots

Signal Dynamics

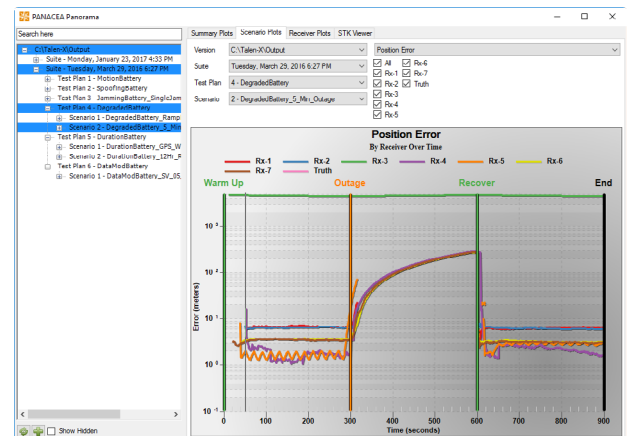
- Number of SVs Used
- Number of SCs Locked
- Position Error
- Velocity Error
- Pulse Error
- Absolute Pulse Error
- ET Position Error
- 3D LLA
- Log Map
- Map
- Fix Statistics
- Date
- Slope of GPS Time
- Slope of UTC Time
- Frame Time Error

Summary Plots

- Average # of SVs Used
- Average # of SVs Locked
- Average Position Error
- Average Velocity Error
- Average Pulse Error
- Average Date
- More...

Receiver Plots

- Number Used/Locked
- Position Error
- Velocity Error
- Position Error Estimate
- Pulse Error
- Absolute Pulse Error
- ET Position Error
- DOP
- C/No Used
- C/No All
- Track State Used
- Track State All
- Code Type Used
- Code Type All
- Frequency Used
- Frequency All
- Range Residuals - Line
- Range Residuals - Heat
- Sky Plot
- SV Elevation
- SV Azimuth
- Date
- UTC/GPS Time Comparison



**POWERED
BY TRUST**

safranfederalsystems.com

